PATENT

DOCKET NO.: 3DP-0544

Application No.: 10/785,436

Preliminary Amendment - First Action Not Yet Received

REMARKS

The specification has been amended to insert the Sequence Listing that is being filed concurrently herewith. No new matter has been added.

Applicants respectfully submit that the present application is in condition for allowance. Favorable consideration and an early notice of allowance are respectfully requested.

Date: September 1, 2004

Andrew T. Serafini Registration No. 41,303

Woodcock Washburn LLP One Liberty Place - 46th Floor Philadelphia PA 19103

Telephone: (215) 568-3100 Facsimile: (215) 568-3439

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Barry A. Springer, Michael W. Pantoliano

and Celia M. Sharp

Confirmation No.: 8523

Application No.: 10/785,436

Group Art Unit: Not Yet Assigned

Filing Date: February 23, 2004

Examiner: Not Yet Assigned

or: ANALOGS OF HUMAN BASIC FIBROBLAST GROWTH FACTOR

MUTATED AT ONE OR MORE OF THE POSITIONS GLUTAMATE 89,

ASPARTATE 101 OR LEUCINE 137

EXPRESS MAIL LABEL NO: EL997979415US

DATE OF DEPOSIT: September 1, 2004

Mail Stop SEQUENCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

STATEMENT TO SUPPORT FILING AND SUBMISSION IN ACCORDANCE WITH 37 CFR §§ 1.821 THROUGH 1.825

i <u>X</u> I	contents of the paper and computer readable copies of the Sequence Listing, submitted in accordance with 37 CFR §1.821(c) and (e), respectively are the same.
	I hereby state that the submission filed in accordance with 37 CFR §1.821(g) does not include new matter.
	I hereby state that the submission filed in accordance with 37 CFR §1.821(h) does not include new matter or go beyond the disclosure in the international application as filed.
	I hereby state that the amendments, made in accordance with 37 CFR §1.825(a), included in the substitute sheet(s) of the Sequence Listing are supported in the application, as filed, at pages . I hereby state that the substitute sheet(s) of the Sequence Listing does (do) not include new matter.
	I hereby state that the substitute copy of the computer readable form, submitted in accordance with 37 CFR §1.825(b), is the same as the amended Sequence Listing.

PATENT

- 2 -

DOCKET NO.: 3DP-0544

I hereby state that the substitute copy of the computer readable form, submitted in accordance with 37 CFR §1.825(d), contains identical data to that originally filed.

Date: September 1, 2004

Andrew T. Serafini Registration No. 41,303

Woodcock Washburn LLP One Liberty Place - 46th Floor Philadelphia PA 19103

Telephone: (215) 568-3100 Facsimile: (215) 568-3439

© 2004 WW



3DP0544.ST25.txt SEQUENCE LISTING

Springer A. Pantoliano, Michael W. Sharp, Celia M. <110> <120>

ANALOGS OF HUMAN BASIC FIBROBLAST GROWTH FACTOR MUTATED AT ONE OR MORE OF THE POSITIONS GLUTAMATE 89, ASPARTATE 101 OR LEUCINE 137

<130> 3DP-0544

us 10/785,436 2004-02-03 <140>

<141>

us 09/722,495 2000-11-28 <150>

<151>

us 09/220,077 1998-12-23 <150>

<151>

us 60/068,667 1997-12-23 <150>

<151>

<160>

<170> PatentIn version 3.3

<210> 1

<211> <212> 483

DNA

<213> Homo sapiens

<220> <221>

<400>

CDS (1)..(474)<222>

1

atg Met 1	ggc Gly	acc Thr	atg Met	gca Ala 5	gcc Ala	ggg Gly	agc Ser	atc Ile	acc Thr 10	acg Thr	ctg Leu	ccc Pro	gcc Ala	ctt Leu 15	CCG Pro		48
gag Glu	gat Asp	ggc Gly	ggc Gly 20	agc Ser	ggc Gly	gcc Ala	ttc Phe	ccg Pro 25	ccc Pro	ggg Gly	cac His	ttc Phe	aag Lys 30	gac Asp	ccc Pro		96
aag Lys	cgg Arg	ctg Leu 35	tac Tyr	tgc Cys	aaa Lys	aac Asn	ggg Gly 40	ggc Gly	ttc Phe	ttc Phe	ctg Leu	cgc Arg 45	atc Ile	сас His	ccc Pro	1	L44
gac Asp	ggc Gly 50	cga Arg	gtt Val	gac Asp	ggg Gly	gtc val 55	cgg Arg	gag Glu	aag Lys	agc Ser	gac Asp 60	cct Pro	cac His	atc Ile	aag Lys	Í	L92
cta Leu 65	caa Gln	ctt Leu	caa Gln	gca Ala	gaa Glu 70	gag Glu	aga Arg	gga Gly	gtt Val	gtg Val 75	tct Ser	atc Ile	aaa Lys	gga Gly	gtg Val 80		240
tgt Cys	gct Ala	aac Asn	cgg Arg	tac Tyr 85	ctg. Leu	gct Ala	atg Met	aaa Lys	gaa Glu 90	gat Asp	ggt Gly	cga Arg	ctg Leu	ctg Leu 95	gct Ala	,	288
tct Ser	aaa Lys	tgc Cys	gtt Val 100	acc Thr	gat Asp	gag Glu	tgc Cys	ttc Phe 105	ttc Phe	ttc Phe	gaa Glu	cgt Arg	ctc Leu 110	gag Glu	tct Ser		336
aac Asn	aac Asn	tac Tyr	aac Asn	acc Thr	tac Tyr	cgt Arg	tcg Ser	aga Arg	Lys	tac Tyr	Tnr	agt Ser	tgg Trp	tat Tyr	gtg Val	,	384

Page 1

gca ctt aag cgt acc ggt cag tac aaa ctt ggt tct aag acg ggc cca Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro 130 135 140

432

483

ggt cag aaa gct atc ctg ttc ctg ccg atg tct gct aaa tct tgaggatcc Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser 145

120

<210> <211> 2 158

PRT

Homo sapiens

<400>

Met Gly Thr Met Ala Ala Gly Ser Ile Thr Thr Leu Pro Ala Leu Pro 10 15

Glu Asp Gly Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro 20 25 30

Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro
35 40 45

Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys 50 55 60

Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val 65 70 75 80

Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala 85 90 95

Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Phe Glu Arg Leu Glu Ser 100 105 110

Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr Ser Trp Tyr Val 115 120 125

Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro 130 135 140

Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser 145 150 155

3 175 <210>

<212> DNA

Homo sapiens <213>

<400> ctggctatga aggaagatgg aagattactg gcttctaaat gtgttacgga tgagtgtttc 60 ttttttgaac gattggaatc taataactac aatacttacc gctcgagaaa atacaccagt 120



Combined Declaration and Power of Attorney for Patent Application

Docket Number: 1503.0220001/JAG/RM

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled Analogs of Human basic Fibroblast Growth Factor, the specification of which is attached hereto unless the following box is checked:

8	was filed on <u>December 23, 1998</u> ; as United States Application Number or PCT International Application Number <u>09/220,077</u> ; and was amended on (if applicable).							
	state that I have reviewed and by any amendment referred	nd understand the contents of the a it to above.	bove identif	ied specification, inclu	iding the claims, as	;		
I acknow	wledge the duty to disclose in	formation that is material to pater	tability as de	efined in 37 C.F.R. § 1	.56.			
inventor United	r's certificate, or § 365(a) of a States listed below, and have	its under 35 U.S.C. § 119(a)-(d) of any PCT international application, also identified below any foreign ing date before that of the applicat	which desig application f	nated at least one cour or patent or inventor's	ntry other than the	Γ		
Prior Fo	oreign Application(s)				Priority Claime	:đ		
(Applic	ation No.)	(Country)	(Day/Mont	h/Year Filed)	□ Yes _. □ No			
(Applic	ation No.)	(Country)	(Day/Mont	h Year Filed)	□ Yes □ No			
I hereby	y claim the benefit under 35	U.S.C. § 119(e) of any United Stat	es provision	al application(s) listed	below.			
60/068,		December 23, 1997						
(Applic	ation No.)	(Filing Date)						
(Applic	eation No.)	(Filing Date)						
internation of this a first partin 37 C	tional application designating application is not disclosed in ragraph of 35 U.S.C. § 112, 1	U.S.C. § 120 of any United States at the United States, listed below and the prior United States or PCT in acknowledge the duty to disclose ilable between the filing date of the cation.	id, insofar as ternational a information	the subject matter of pplication in the manr that is material to pate	each of the claims ner provided by the entability as define	•		
(Applie	cation No.)	(Filing Date)	(5	Status - patented, pend	ing, abandoned)			
(Appli	cation No.)	(Filing Date)	<u> </u>	Status - patented, pend	ling, abandoned)			

Appl. No. 09/220,077 Docket No.1503.0220001/JAG/RM

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Robert G. Sterne, Esq., Reg. No. 28,912; Edward J. Kessler, Esq., Reg. No. 25,688; Jorge A. Goldstein, Esq., Reg. No. 29,021; Samuel L. Fox, Esq., Reg. No. 30,353; David K.S. Comwell, Esq., Reg. No. 31,944; Robert W. Esmond, Esq., Reg. No. 32,893; Tracy-Gene G. Durkin, Esq., Reg. No. 32,831; Michele A. Cimbala, Esq., Reg. No. 33,851; Michael B. Ray, Esq., Reg. No. 33,997; Robert E. Sokohl, Esq., Reg. No. 36,013; Eric K. Steffe, Esq., Reg. No. 36,688; Michael Q. Lee, Esq., Reg. No. 35,239; and Steven R. Ludwig, Reg. No. 36,203.

Send Correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934

Direct Telephone Calls to:

(202) 371-2600

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Barry A. SPRINGER
Signature of sole or first inventor) April 12 1989 ×
Residence 208 Charleston Ar. Wilmington AE 19808
Citizenship U.S.A.
Post Office Address Charleston Dr. Wilmsoon DE 19808
Full name of second inventor Michael W. PANTOLIANO
Signature of second inventor April 12 1998
Residence 570 CHANDLER MILL ROAD AVONDALE PA 19311
Citizenship U.S.A.
Post Office Address 570 CHANDLER MILL ROAD AVOIDALE PA 19311

Appl. No. 09/220,077 Docket No.1503.0220001/JAG/RM

Full name of third inventor Celia M. SHARP	
Signature of third inventor	-04/12/902 Date
Residence 2926 PAPRIKA RD DOYLESTOWN PA	18901
Citizenship L1SA	
Post Office Address 2926 PAPRIKA RD DOYLESTOWN PI	18901
	9

P:WSERS/RMCISAACVFILES/1503/0220001\pio\expdex.pos nicof for 1/1/99 mm (Supply similar information and signature for subsequent joint inventors, if any)